

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1–9. (Canceled)

Claim 10. (Previously Presented) A communication system comprising a first communication apparatus and a second communication apparatus, wherein the first communication apparatus comprises:

reception means for receiving transmission power control information which is based on SIR measurement results in the second communication apparatus from the second communication apparatus;

first control means for carrying out transmission power control of the first communication apparatus in accordance with a predetermined control pattern before the first communication apparatus becomes able to receive the transmission power control information from the second communication apparatus, the predetermined control pattern being fixed and invariable; and

second control means for carrying out transmission power control of the first communication apparatus in accordance with the transmission power control information received from the second communication apparatus after the first communication apparatus becomes able to receive the transmission power control information from the second communication apparatus, and

the second communication apparatus comprises:

transmission means for transmitting the transmission power control information which is based on SIR measurement results in the second communication apparatus to the first communication apparatus.

Claim 11. (Previously Presented) A communication apparatus comprising:
reception means for receiving transmission power control information which is based on
SIR measurement results in another communication apparatus;
first control means for carrying out transmission power control of the communication
apparatus in accordance with a predetermined control pattern before the communication
apparatus becomes able to receive the transmission power control information from the another
communication apparatus, the predetermined control pattern being fixed and invariable; and
second control means for carrying out transmission power control of the communication
apparatus in accordance with the transmission power control information received from the
another communication apparatus after the communication apparatus becomes able to receive the
transmission power control information from the another communication apparatus.

Claim 12. (Previously Presented) The communication apparatus as claimed in
claim 11, wherein the predetermined control pattern is a fixed and invariable pattern for
increasing transmission power of the communication apparatus step by step regularly.

Claim 13. (Previously Presented) The communication apparatus as claimed in
claim 12, wherein the predetermined control pattern is a fixed and invariable pattern for
increasing the transmission power of the communication apparatus to a predetermined value, and
subsequently, less rapidly increasing the transmission power of the communication apparatus.

Claim 14. (Previously Presented) A communication system comprising a first communication apparatus and a second communication apparatus, wherein the first communication apparatus comprises:

first transmission means for transmitting transmission power control information which is based on SIR measurement results in the first communication apparatus to the second communication apparatus; and

second transmission means for transmitting information regarding an initial value of transmission power of the second communication apparatus to the second communication apparatus, and

the second communication apparatus comprises:

first reception means for receiving the transmission power control information which is based on SIR measurement results in the first communication apparatus from the first communication apparatus;

control means for carrying out transmission power control of the second communication apparatus in accordance with the transmission power control information received from the first communication apparatus after the second communication apparatus becomes able to receive the transmission power control information from the first communication apparatus; and

second reception means for receiving the information regarding the initial value of the transmission power from the first communication apparatus, and

wherein the control means sets an initial value of transmission power of the second communication apparatus in accordance with the information regarding the initial value of the transmission power and starts the transmission power control with the initial value.

Claim 15. (Previously Presented) The communication system as claimed in claim 14, wherein the first transmission means transmits transmission power control information for regularly raising the transmission power of the second communication apparatus instead of the transmission power control information based on SIR measurement results before the first communication apparatus becomes able to synchronize with a signal from the second communication apparatus.

Claim 16. (Previously Presented) A communication apparatus comprising:
first reception means for receiving transmission power control information which is based on SIR measurement results in another communication apparatus;
control means for carrying out transmission power control of the communication apparatus in accordance with the transmission power control information received from the another communication apparatus after the communication apparatus becomes able to receive the transmission power control information from the another communication apparatus; and
second reception means for receiving information regarding an initial value of transmission power of the communication apparatus,
wherein the control means sets an initial value of transmission power of the communication apparatus in accordance with the information regarding the initial value of the transmission power and starts the transmission power control with the initial value.

Claim 17. (Previously Presented) A communication apparatus comprising:
first transmission means for transmitting transmission power control information which is based on SIR measurement results in the communication apparatus to another communication apparatus; and

second transmission means for transmitting information regarding an initial value of transmission power of the another communication apparatus to said another communication apparatus,

wherein the first transmission means transmits transmission power control information for regularly raising the transmission power of the another communication apparatus instead of the transmission power control information based on SIR measurement results before said communication apparatus becomes able to synchronize with a signal from said another communication apparatus.

Claim 18. (Previously Presented) The communication apparatus as claimed in claim 17, further comprising means for varying a pattern of the transmission power control information for regularly raising the transmission power of the another communication apparatus.

Claim 19. (Previously Presented) A communication method at a communication system comprising a first communication apparatus and a second communication apparatus, comprising:

a transmission step of transmitting, at the second communication apparatus, transmission power control information which is based on SIR measurement results in the second communication apparatus to the first communication apparatus;

a first control step of carrying out, at the first communication apparatus, transmission power control of the first communication apparatus in accordance with a predetermined control pattern before the first communication apparatus becomes able to receive the transmission power control information from the second communication apparatus, the predetermined control pattern being fixed and invariable;

a reception step of receiving, at the first communication apparatus, the transmission power control information which is based on SIR measurement results in the second communication apparatus from the second communication apparatus; and

a second control step of carrying out, at the first communication apparatus, transmission power control of the first communication apparatus in accordance with the transmission power control information received from the second communication apparatus after the first communication apparatus becomes able to receive the transmission power control information from the second communication apparatus.

Claim 20. (Previously Presented) A communication method at a communication apparatus, comprising:

a reception step of receiving transmission power control information which is based on SIR measurement results in another communication apparatus from the another communication apparatus;

a first control step of carrying out transmission power control of the communication apparatus in accordance with a predetermined control pattern before the communication apparatus becomes able to receive the transmission power control information from the another communication apparatus, the predetermined control pattern being fixed and invariable; and

a second control step of carrying out transmission power control of the communication apparatus in accordance with the transmission power control information received from the another communication apparatus after the communication apparatus becomes able to receive the transmission power control information from the another communication apparatus.

Claim 21. (Previously Presented) A communication method at a communication system comprising a first communication apparatus and a second communication apparatus, comprising:

a first transmission step of transmitting, at the first communication apparatus, transmission power control information which is based on SIR measurement results in the first communication apparatus to the second communication apparatus;

a second transmission step of transmitting, at the first communication apparatus, information regarding an initial value of transmission power of the second communication apparatus to the second communication apparatus;

a first reception step of receiving, at the second communication apparatus, the transmission power control information which is based on SIR measurement results in the first communication apparatus from the first communication apparatus;

a second reception step of receiving, at the second communication apparatus, the information regarding the initial value of the transmission power from the first communication apparatus; and

a control step of carrying out, at the second communication apparatus, transmission power control of the second communication apparatus in accordance with the transmission power control information received from the first communication apparatus after the second communication apparatus becomes able to receive the transmission power control information from the first communication apparatus,

wherein the control step sets an initial value of transmission power of the second communication apparatus in accordance with the information regarding the initial value of the transmission power and starts the transmission power control with the initial value.

Claim 22. (Previously Presented) The communication method as claimed in claim 21, wherein the first transmission step transmits transmission power control information for regularly raising the transmission power of the second communication apparatus instead of the transmission power control information based on SIR measurement results before the first communication apparatus becomes able to synchronize with a signal from the second communication apparatus.

Claim 23. (Previously Presented) A communication method at a communication apparatus, comprising:

a first reception step of receiving transmission power control information which is based on SIR measurement results in another communication apparatus;

a control step of carrying out transmission power control of the communication apparatus in accordance with the transmission power control information received from the another communication apparatus after the communication apparatus becomes able to receive the transmission power control information from the another communication apparatus; and

a second reception step of receiving information regarding an initial value of transmission power of the communication apparatus,

wherein the control step sets an initial value of transmission power of the communication apparatus in accordance with the information regarding the initial value of the transmission power and starts the transmission power control with the initial value.

Claim 24. (Previously Presented) A communication method at a first communication apparatus, comprising:

a first transmission step of transmitting transmission power control information which is based on SIR measurement results in the first communication apparatus to a second communication apparatus; and

a second transmission step of transmitting information regarding an initial value of transmission power of the second communication apparatus to the second communication apparatus,

wherein the first transmission step transmits transmission power control information for regularly raising the transmission power of the second communication apparatus instead of the transmission power control information based on SIR measurement results before the first communication apparatus becomes able to synchronize with a signal from the second communication apparatus.

Claim 25. (Previously Presented) The communication system as claimed in claim 10, wherein the predetermined control pattern is a fixed and invariable pattern for increasing transmission power of the first communication apparatus step by step regularly.

Claim 26. (Previously Presented) The communication system as claimed in claim 25, wherein the predetermined control pattern is a fixed and invariable pattern for increasing the transmission power of the first communication apparatus to a predetermined value, and subsequently, less rapidly increasing the transmission power of the first communication apparatus.

Claim 27. (Previously Presented) The communication system as claimed in claim 10, wherein the first communication apparatus is a base station and the second communication apparatus is a mobile station.

Claim 28. (Previously Presented) The communication apparatus as claimed in claim 11, wherein the communication apparatus is a base station and the another communication apparatus is a mobile station.

Claim 29. (Previously Presented) The communication method as claimed in claim 19, wherein the predetermined control pattern is a fixed and invariable pattern of the first communication apparatus for increasing transmission power step by step regularly.

Claim 30. (Previously Presented) The communication method as claimed in claim 29, wherein the predetermined control pattern is a fixed and invariable pattern for increasing the transmission power of the first communication apparatus to a predetermined value, and subsequently, less rapidly increasing the transmission power of the first communication apparatus.

Claim 31. (Previously Presented) The communication method as claimed in claim 19, wherein the first communication apparatus is a base station and the second communication apparatus is a mobile station.

Claim 32. (Previously Presented) The communication method as claimed in claim 20, wherein the predetermined control pattern is a fixed and invariable pattern for increasing transmission power of the communication apparatus step by step regularly.

Claim 33. (Previously Presented) The communication method as claimed in claim 32, wherein the predetermined control pattern is a fixed and invariable pattern for increasing the transmission power of the first communication apparatus to a predetermined value, and subsequently, less rapidly increasing the transmission power of the communication apparatus.

Claim 34. (Previously Presented) The communication method as claimed in claim 20, wherein the communication apparatus is a base station and the another communication apparatus is a mobile station.

Claim 35. (Previously Presented) The communication system as claimed in claim 14, wherein the first communication apparatus is a base station and the second communication apparatus is a mobile station.

Claim 36. (Previously Presented) The communication apparatus as claimed in claim 16, wherein the communication apparatus is a mobile station and the another communication apparatus is a base station.

Claim 37. (Previously Presented) The communication method as claimed in claim 21, wherein the first communication apparatus is a base station and the second communication apparatus is a mobile station.

Claim 38. (Previously Presented) The communication method as claimed in claim 23, wherein the communication apparatus is a mobile station and the another communication apparatus is a base station.

Claim 39. (Previously Presented) The communication apparatus as claimed in claim 17, wherein the communication apparatus is a base station and the another communication apparatus is a mobile station.

Claim 40. (Previously Presented) The communication method as claimed in claim 24, further comprising a step of varying a pattern of the transmission power control information for regularly raising the transmission power of the second communication apparatus.

Claim 41. (Previously Presented) The communication method as claimed in claim 24, wherein the first communication apparatus is a base station and the second communication apparatus is a mobile station.